

Earthwork Balance Sheet

Volumes in Cubic Yards

PROJECT: BR-0015

COUNTY: Davidson

DATE: 4/9/2025

COMPILED BY: ABG

SHEET __ OF __ SHEETS

STATION	STATION	EXCAVATION					EMBANKMENT				BORROW	WASTE			
		TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. +20%		ROCK	SUITABLE	UNSUIT.	TOTAL
Phase 1 - Temp Pavement (Median Crossover)															
-LDET_X01- 10+00.00	-L- 28+86.81*	673			673		14		14	17	17			673	673
-L- 29+97.87	-L- 49+45.00*	288			288		443		443	532	532			288	288
	SUBTOTAL	961			961		457		457	549	549			961	961
Phase 2															
-L- RT 12+00.00	-L- RT 28+90 (Begin Bridge)*	421				421	3,468		3,468	4,162	3,741				
-L- RT 30+02 (End Bridge)	-L- RT 36+50.00*	37				37	907		907	1,088	1,051				
-RPD- 10+00.00	-RPD- 13+00.00	155				155	101		101	121			34		34
	SUBTOTAL	613				613	4,476		4,476	5,371	4,792		34		34
Phase 3															
-L- LT 12+00.00	-L- LT 28+90 (Begin Bridge)*	7,877			2,875	5,002	1,405		1,405	1,686			3,316	2,875	6,191
-L- LT 30+02 (End Bridge)	-L- LT 49+50.00*	455			125	330	1,315		1,315	1,578	1,248			125	125
-Y1- RT 13+00.00	-Y1- RT 19+50.00*	883				883	505		505	606			277		277
-RPB- 10+00.00	-RPB- 17+85.00*	51,327			10,925	40,402	12		12	14			40,388	10,925	51,313
RPB LPB Y1 13+00.00	RPB LPB Y1 14+50.00*	16				16							16		16
	SUBTOTAL	60,558			13,925	46,633	3,237		3,237	3,884	1,248		43,997	13,925	57,922
Phase 3A															
-L- LT 36+70.00	-L- RT 49+50.00*	22				22	2		2	3			20		20
-Y1- RT 10+00.00	-Y1- RT 13+00.00*	379				379	2		2	2			377		377
-Y2- 11+68.00	-Y2- 14+75.00*	1,023		625		1,023	96		96	115			908	625	1,533
-LPB- 10+00.00	-LPB- 16+00.00*	5,309		75		5,309	1,390		1,390	1,668			3,641	75	3,716
-RPB- 17+85.00	-RPB- 19+50.00*	1,375		50		1,375	0		0	0			1,375	50	1,425
RPB LPB Y1 11+50.00	RPB LPB Y1 13+00.00*	448				448	0		0	0			448		448
-DRW1- 10+00.00	-DRW1- 11+50.00*	453		300		453	4		4	5			448	300	748
	SUBTOTAL	9,009		1,050		9,009	1,494		1,494	1,792			7,216	1,050	8,266
Phase 4															
-L- 12+00.00	-L- 28+90 (Begin Bridge)*	188			188		1,200		1,200	1,440	1,440			188	188
-L- 30+02 (End Bridge)	-L- 49+50.00*	381			381		372		372	446	446			381	381
-Y1- LT 10+00.00	-Y1- LT 19+50.00*	619				619	225		225	270			349		349
-Y2- 10+00.00	-Y2- 11+68.00	542				542	60		60	72			470		470
-Y2- 14+75.00	-Y2- 18+50.00*	241		125		241	112		112	135			106	125	231
	SUBTOTAL	1,971		125	569	1,402	1,968		1,968	2,362	1,885		925	694	1,619
TOTAL		73,112		1,175	15,455	57,657	11,632		11,632	13,958	8,474		52,172	16,630	68,802
MATERIAL FOR SHOULDER CONSTRUCTION LOSS DUE TO CLEARING & GRUBBING		-2,100				-2,100							-2,100		-2,100
ADDITIONAL UNDERCUT				2,300			2,300		2,300	2,760	2,760			2,300	2,300
SELECT GRANULAR MATERIAL IN LIEU OF BORROW											-2,760			-2,760	-2,760
WASTE IN LIEU OF BORROW											-3,133		-3,133		-3,133
PROJECT TOTAL		71,012		3,475	15,455	55,557	13,932		13,932	16,718	5,341		46,939	16,170	63,109
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT															
GRAND TOTAL		71,012		3,475	15,455	55,557	13,932		13,932	16,718	5,341		46,939	16,170	63,109
SAY		71,100		3,475	15,500					16,800	5,400				63,200
*UNCLASSIFIED EXCAVATION - ACCEPTABLE, BUT NOT TO BE USED IN TOP 3' OF EMBANKMENT OR BACKFILL -L- 14+25.00 TO 16+25.00 (1725 CY), -L- 19+25.00 TO 20+25.00 (175 CY), -L- 33+25.00 TO 33+75.00 (25 CY), -L- 37+75.00 TO 38+60.00 (50 CY), -L- 43+75.00 TO 45+75.00 (150 CY), -Y1- 10+25.00 TO 12+25.00 (175 CY), -Y1- 13+25.00 TO 14+75.00 (50 CY), -Y2- 12+25.00 TO 16+06.00 (650 CY), -RPB- 10+00.00 TO 10+38.00 (125 CY), -RPB- 12+40.00 TO 16+75.00 (14550 CY), -RPB- 18+75.00 TO 19+14.00 (25 CY), -LPB- 12+34.00 TO 13+54.00 (1300 CY), -LPB- 15+31.00 TO 15+74.00 (50 CY) & -DRW1- 10+11.00 TO 11+45.00 (275 CY) = 19,325 CY PER GEOTECH															

NOTE: EARTHWORK QUANTITIES ARE CALCULATED BY THE KCA ROADWAY DESIGN ENGINEER. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

NOTE: BORROW ASSUMED TO BE REQUIRED FOR PHASES 1 AND 2 DUE TO TRAFFIC MANAGEMENT PHASING PLAN

EST. DDE = 1420 CUBIC YARDS

EST. SHALLOW UNDERCUT = 1000 CUBIC YARDS

EST.SHALLOW UNDERCUT BY STATIONS = 4600 CUBIC YARDS

TOTAL SHALLOW UNDERCUT = 5600 CUBIC YARDS

CLASS IV SUBGRADE STABILIZATION = 11425 TONS

EST. SELECT GRANULAR MATERIAL = 3175 CUBIC YARDS